CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

10th July 2017

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam supplied by you, for the work of **'Improvements to 6th cross road of Escort layout from Omshakthi temple t santhosh Nagara main road of Attur ward no. 03.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AEW3

AE-03

CIVIL TECH LABS
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TEST REPORT

COMBINED FLAKINESS AND ELONGATION INDEX TEST ON AGGREGATES

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Sample	Wet Mix Macadam
Date of Testing	10/07/2017
Technical Reference	IS 2386(Part 1)- 1963 (Reaffirmed-2016)

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
Flakiness Index	12.6	26.1	Maximum allowed 'C-F&E' is 30 %
Elongation Index	13.5		

Remarks	**Satisfies the requirement**

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AE-DJ

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Quality Manager

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TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Sample	Wet Mix Macadam
Date of Testing	10/07/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements As per MORTH (4th Revision) Table 400-10 for WMM
1	21.3	21.9	Maximum allowed 'AIV' is 30%
2	22.5		

Remarks	**Satisfies the requirement**

AE W3

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE-03

Khushboo

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Quality Manager

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	10/07/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**96.5**	
22.4	60-80	**75.4**	
11.2	40-60	**52.6**	
4.75	25-40	**31.5**	
2.36	15-30	**24.8**	
0.6	8-22	**18.9**	
0.075	0-8	**6.8**	

AE W3

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	10/07/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**97.4**	
22.4	60-80	**74.2**	
11.2	40-60	**53.6**	
4.75	25-40	**30.5**	
2.36	15-30	**25.4**	
0.6	8-22	**17.4**	
0.075	0-8	**6.6**	

AE W3

Note:

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AE-03

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	10/07/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-3		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**98.4**	
22.4	60-80	**75.4**	
11.2	40-60	**52.6**	
4.75	25-40	**31.5**	
2.36	15-30	**24.8**	
0.6	8-22	**18.8**	
0.075	0-8	**6.5**	

AE W3

Note:

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AE-01

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	10/07/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-4		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**98.2**	
22.4	60-80	**74.6**	
11.2	40-60	**53.2**	
4.75	25-40	**30.8**	
2.36	15-30	**25.8**	
0.6	8-22	**16.5**	
0.075	0-8	**6.6**	

AE W2

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE-23

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Date of Testing	10/07/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-5		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM**	**Actual % By Weight Passing IS Sieve**	**Remarks**
53	100	**100**	**Satisfies the requirement**
45	95-100	**97.4**	
22.4	60-80	**75.2**	
11.2	40-60	**54.2**	
4.75	25-40	**31.8**	
2.36	15-30	**24.6**	
0.6	8-22	**18.8**	
0.075	0-8	**8.2**	

AE W3

Note:

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AE-03

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T-2654

To,

Assistant Executive Engineer,
Yelanka New town Sub Division,
BBMP.

22nd September 2017

Dear Sir,

Sub: Testing of Bituminous Concrete.

As requested, tests on physical properties were carried out for the Bituminous Concrete supplied by you, for the work of **'Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

AE W3

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-03

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TEST REPORT

DETERMINATION OF AGGREGATE IMPACT VALUE

Name & Address of the Customer	AEE, Yelanka New town Sub Division, BBMP.
Name of the Work	Improvements to 6th cross road of Escort layout from Omshakthi temple to santhosh Nagara main road of Attur ward no. 03.
Name of the Agency	Sri. Kishor kumar . M
Sample	Bituminous Concrete
Date of Testing	22/09/2017
Technical Reference	IS 2386(Part 4)- 1963 (Reaffirmed-2016)

Sample No.	Aggregate Impact Value, 'AIV' in %	Average 'AIV' in %	Requirements as per MORTH (4th Revision) Table 500-17 for BC
1	18.5	19.1	Maximum allowed 'AIV' is 24%
2	19.6		

Remarks	**Satisfies the requirement**

AE W3

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AE-03

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